2005 **Farm Machinery Rental** and **Custom Rate Guide**

Manitoba

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FARM MACHINERY

RENTAL AND

CUSTOM RATE GUIDE

2005

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INTRODUCTION

This Rental and Custom Rate Guide has been prepared by Manitoba Agriculture, Food, and Rural Initiatives to provide information on farm machinery costs, and rental and custom rates for users and owners of farm equipment. The costs and rates are based on average conditions existing in Manitoba in early 2005. The components of each of the rates are shown, so that they can be easily altered in case individual situations differ from those assumed.

These rates are provided as a guideline and should be interpreted and adjusted if necessary for individual situations.

The following conditions and assumptions were used in this guide:

NEW COST OF EQUIPMENT - based on the most recent published list prices less 15% for machines over $100,000; list price less 13.5% for other equipment. Freight costs are assumed to be 1% of new cost for tractors, 1.5% for combines and forage equipment, and 2% for tillage and seeding equipment.

Average sizes shown are based on the above prices. In many cases there is a wide variation in prices for a given size of machine. For example, air seeders may vary plus or minus 30% from the average, depending on the options selected. Where the actual cost of your machine is different for the size shown, the actual cost should be used to determine the appropriate rate.

ANNUAL HOURS OF USE - as shown on each chart.

INTEREST RATE - 4% per annum. This is the investment interest rate. It represents the opportunity cost of owning the equipment.

DEPRECIATION RATES - declining balance method; details given in appendix.

FIXED COSTS - total of interest and depreciation costs, plus 1% of new cost per annum for insurance and housing. Based on the average costs over the life of the machine.

REPAIRS AND MAINTENANCE - based on surveys by American Society of Agricultural Engineers and Manitoba Agriculture, Food, and Rural Initiatives and adjusted for Manitoba Farm Machinery Act warranties where applicable. Includes filters, oil changes, grease, and normal maintenance costs, including labour. Based on the average costs over the life of the machine.

MARGIN (MARKUP) - 15% of (total fixed costs plus repairs and maintenance).

RENTAL RATE - total of fixed costs, repairs and maintenance, and margin.

FUEL COST - based on average fuel consumption from Nebraska Tractor Tests (tractors) and PAMI tests (other self-propelled equipment). A diesel fuel price of $0.65/L and a gasoline price of $0.65/L is assumed for 2005.

LABOUR COST- as shown on each chart.

CUSTOM RATE - total of rental rate, fuel cost and labour cost.

NOTE: All above costs are based on the averages over the life of the machine - assumed to be 15 years.The rental and custom rates shown are therefore low for machines less than 6 years old and high for machines older than 7 years.

NOTES and CALCULATIONS

TYPICAL COSTS PER ACRE

	SPEED	MACHINE SIZE or TYPE	RENTAL RATE	CUSTOM RATE
Balers				
(round bales - 15/hr)		6'(dia.) x 5'(wide)	$2.50 - $3.70/bale plus twine	$4.50 - $6.50/bale plus twine
(square bales - 200/hr)		14" x 18"	$0.11- $0.16/bale plus twine	$0.27 -$0.33/bale plus twine
(large sq. bales - 40/hr)		31.5" x 34"	$2.25 - $3.50/bale plus twine	$4.00 -$6.00/bale plus twine
Bale pickup				
(SP square bale wagon)		160 bales	$0.20 - $0.25/bale	$0.27 - $0.35/bale
(PT round bale wagon)		14 bales	$0.85 - $1.20/bale	$2.50 - $3.50/bale
(6 km round trip)				
Combine (SP)				
(Wheat @ 45 bu/ac.)	3 - 5 mph	25 ft.	$13.50 - $18.00/ac	$15.50 - $20.00/ac
Cultivator				
(first operation)	4 - 5 mph	40 ft.	$1.20 - $1.50/ac	$4.50 - $5.75/ac
(secondary operations)	4.5 - 5.5 mph	40 ft.	$1.00 - $1.30/ac	$3.75 - $5.00/ac
Grain truck				
(20 mile round trip)	35 - 50 mph	600 bu.	$.0023-.0027/bu/mile	$.0041-.0045/bu/mile
(60 mile round trip)		600 bu.	$.0018-.0023/bu/mile	$.0032-.0037/bu/mile
Harrows	5.5 - 7 mph	80 ft.	$0.40 - $0.50/ac	$1.75 - $2.25/ac
Mower conditioner	4 - 6 mph	14 ft.	$5.00 - $5.75/ac	$8.50 - $9.75/ac
Seeders				
(air seeder)	4 - 5 mph	40 ft.	$4.50 - $5.75/ac	$7.50 - $9.50/ac
(air drill)	4 - 5 mph	40 ft.	$6.00 -$7.25/ac	$10.00 - $12.50/ac
(drill)	4 - 5 mph	40 ft.	$4.00 - $5.00/ac	$6.50 - $8.50/ac
Sprayers				
(Pull type)	5 - 8 mph	100 ft.	$1.50 - $2.00/ac	$3.00 - $3.50/ac
(Self-Propelled)	12-15 mph	80 ft	$2.50 - $3.25/ac.	$3.00 - 4.00/ac.
Tractors	4 - 7 mph	2WD FWA 4WD	$0.18 - $0.21/hphr. $0.22 - $0.25/hphr. $0.17 - $0.20/hphr.	add $0.08 - 0.10/hphr. for fuel and $10/h for labour
Windrower (PTO)	4 - 5.5 mph	25 ft.	$1.95 - $2.35/ac	$4.00 - $5.00/ac
Windrower (SP)	4 - 5.5 mph	25 ft.	$6.00 - $7.50/ac	$7.50 - $9.00/ac

TRACTORS

New Cost	Average size PTO power	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
			dollars per hour						
TWO WHEEL DRIVE TRACTORS									
$30,000	45kW(60 hp)*	300	8.56	1.20	1.46	11.22	5.43	10.00	26.65
		450	**5.71**	**1.50**	**1.08**	**8.29**	**5.43**	**10.00**	**23.72**
		600	4.28	1.80	0.91	6.99	5.43	10.00	22.42
$45,000	60 kW(80 hp)*	300	12.84	1.80	2.20	16.84	8.14	10.00	34.98
		450	**8.56**	**2.25**	**1.62**	**12.43**	**8.14**	**10.00**	**30.57**
		600	6.42	2.70	1.37	10.49	8.14	10.00	28.63
$60,000	75kW(100 hp)* 60 kW(80 hp)	300	17.12	2.40	2.93	22.45	8.58	10.00	41.03
		450	11.41	3.00	2.16	**16.58**	8.58	10.00	**35.16**
		600	8.56	3.60	1.82	13.98	8.58	10.00	32.56
$75,000	75kw(100 hp)	300	21.40	3.00	3.66	28.06	10.73	10.00	48.79
		450	14.27	3.75	2.70	**20.72**	10.73	10.00	**41.44**
		600	10.70	4.50	2.28	17.48	10.73	10.00	38.20
$90,000	89kW(120 hp)	300	25.68	3.60	4.39	33.67	12.87	10.00	56.54
		450	17.12	4.50	3.24	**24.86**	12.87	10.00	**47.73**
		600	12.84	5.40	2.74	20.98	12.87	10.00	43.85
$105,000	104kW(140 hp)	300	29.96	4.20	5.12	39.28	15.02	10.00	64.30
		450	19.97	5.25	3.78	**29.01**	15.02	10.00	**54.02**
		600	14.98	6.30	3.19	24.47	15.02	10.00	49.49
$120,000	120kW(160 hp)	300	34.24	4.80	5.86	44.90	17.16	10.00	72.06
		450	22.83	6.00	4.32	**33.15**	17.16	10.00	**60.31**
		600	17.12	7.20	3.65	27.97	17.16	10.00	55.13
140,000.00	142kW(190 hp)	300	39.95	5.60	6.83	52.38	20.02	10.00	82.40
		450	26.63	7.00	5.04	**38.68**	20.02	10.00	**68.70**
		600	19.97	8.40	4.26	32.63	20.02	10.00	62.65
$160,000	160kW(215 hp)	300	45.65	6.40	7.81	59.86	22.88	10.00	92.74
		450	30.44	8.00	5.77	**44.20**	22.88	10.00	**77.08**
		600	22.83	9.60	4.86	37.29	22.88	10.00	70.17
FRONT WHEEL ASSIST TRACTORS									
$30,000	32 kW(45 hp)*	300	8.56	1.20	1.46	11.22	4.44	10.00	25.67
		450	**5.71**	**1.50**	**1.08**	**8.29**	**4.44**	**10.00**	**22.73**
		600	4.28	1.80	0.91	6.99	4.44	10.00	21.44
$45,000	48 kW(65 hp)*	300	12.84	1.80	2.20	16.84	6.67	10.00	33.50
		450	8.56	2.25	1.62	**12.43**	6.67	10.00	**29.10**
		600	6.42	2.70	1.37	10.49	6.67	10.00	27.15
$60,000	63 kW(85 hp)* 52 kW (70 hp)	300	17.12	2.40	2.93	22.45	8.89	10.00	41.34
		450	11.41	3.00	2.16	**16.58**	8.89	10.00	**35.46**
		600	8.56	3.60	1.82	13.98	8.89	10.00	32.87
$75,000	65 kW(87 hp)	300	21.40	3.00	3.66	28.06	9.33	10.00	47.39
		450	14.27	3.75	2.70	**20.72**	9.33	10.00	**40.05**
		600	10.70	4.50	2.28	17.48	9.33	10.00	36.81
$95,000	82 kW(110 hp)	300	27.11	3.80	4.64	35.54	11.81	10.00	57.36
		450	18.07	4.75	3.42	**26.24**	11.81	10.00	**48.06**
		600	13.55	5.70	2.89	22.14	11.81	10.00	43.95
$115,000	100 kW(134 hp)	300	32.81	4.60	5.61	43.03	14.30	10.00	67.33
		450	21.88	5.75	4.14	**31.77**	14.30	10.00	**56.07**
		600	16.41	6.90	3.50	26.80	14.30	10.00	51.10

Notes: If tractor rating is given in net engine power, multiply by 0.88 to get PTO power
Asterisks * indicate tractors without cabs but with ROPS.
If your tractor size and the new cost indicated don't agree, use the actual new cost.

TRACTORS

New Cost	Average size PTO power	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
			dollars per hour						
FRONT WHEEL ASSIST TRACTORS (cont.)									
$135,000	115 kW(155 hp)	300	38.52	5.40	6.59	50.51	16.79	10.00	77.29
		450	25.68	6.75	4.86	**37.29**	16.79	10.00	**64.08**
		600	19.26	8.10	4.10	31.46	16.79	10.00	58.25
$155,000	134 kW(180 hp)	300	44.23	6.20	7.56	57.99	19.27	10.00	87.26
		450	29.48	7.75	5.59	**42.82**	19.27	10.00	**72.09**
		600	22.11	9.30	4.71	36.13	19.27	10.00	65.40
$175,000	150 kW(200 hp)	300	49.93	7.00	8.54	65.47	21.76	10.00	97.23
		450	33.29	8.75	6.31	**48.34**	21.76	10.00	**80.11**
		600	24.97	10.50	5.32	40.79	21.76	10.00	72.55
$195,000	168 kW(225 HP)	300	55.64	7.80	9.52	72.96	24.25	10.00	107.20
		450	37.09	9.75	7.03	**53.87**	24.25	10.00	**88.12**
		600	27.82	11.70	5.93	45.45	24.25	10.00	79.70
$215,000	186 kW(250 hp)	300	61.35	8.60	10.49	80.44	26.73	10.00	117.17
		450	40.90	10.75	7.75	**59.39**	26.73	10.00	**96.13**
		600	30.67	12.90	6.54	50.11	26.73	10.00	86.84
FOUR WHEEL DRIVE TRACTORS									
$140,000	149 kW (200 hp)	300	39.95	5.60	6.83	52.38	21.64	10.00	84.02
		450	26.63	7.00	5.04	**38.68**	21.64	10.00	**70.32**
		600	19.97	8.40	4.26	32.63	21.64	10.00	64.27
$155,000	168 kW (225 hp)	300	44.23	6.20	7.56	57.99	23.96	10.00	91.95
		450	29.48	7.75	5.59	**42.82**	23.96	10.00	**76.78**
		600	22.11	9.30	4.71	36.13	23.96	10.00	70.08
$170,000	184 kW (246 hp)	300	48.51	6.80	8.30	63.60	26.28	10.00	99.88
		450	32.34	8.50	6.13	**46.96**	26.28	10.00	**83.24**
		600	24.25	10.20	5.17	39.62	26.28	10.00	75.90
$185,000	200 kW (268 hp)	300	52.79	7.40	9.03	69.21	28.60	10.00	107.81
		450	35.19	9.25	6.67	**51.11**	28.60	10.00	**89.70**
		600	26.39	11.10	5.62	43.12	28.60	10.00	81.71
$200,000	215 kW (290 hp)	300	57.07	8.00	9.76	74.83	30.91	10.00	115.74
		450	38.04	10.00	7.21	**55.25**	30.91	10.00	**96.17**
		600	28.53	12.00	6.08	46.61	30.91	10.00	87.53
$215,000	232 kW (311 hp)	300	61.35	8.60	10.49	80.44	33.23	10.00	123.67
		450	40.90	10.75	7.75	**59.39**	33.23	10.00	**102.63**
		600	30.67	12.90	6.54	50.11	33.23	10.00	93.34
$230,000	250 kW (333 hp)	300	65.63	9.20	11.22	86.05	35.55	10.00	131.60
		450	43.75	11.50	8.29	**63.54**	35.55	10.00	**109.09**
		600	32.81	13.80	6.99	53.61	35.55	10.00	99.16
$245,000	265 kW (355 hp)	300	69.91	9.80	11.96	91.66	37.87	10.00	139.53
		450	46.60	12.25	8.83	**67.68**	37.87	10.00	**115.55**
		600	34.95	14.70	7.45	57.10	37.87	10.00	104.97
$260,000	280 kW(375 hp)	300	74.19	10.40	12.69	97.27	40.19	10.00	147.46
		450	49.46	13.00	9.37	**71.83**	40.19	10.00	**122.01**
		600	37.09	15.60	7.90	60.60	40.19	10.00	110.79
$275,000	298 kW (400 hp)	300	78.47	11.00	13.42	102.89	42.51	10.00	155.39
		450	52.31	13.75	9.91	**75.97**	42.51	10.00	**128.48**
		600	39.23	16.50	8.36	64.09	42.51	10.00	116.60

Notes: If tractor rating is given in net engine power, multiply by 0.88 to get PTO power
If your tractor size and the new cost indicated don't agree, use the actual new cost.
4WD = 4 wheel drive

AIR SEEDERS / AIR DRILLS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$60,000	Air seeder 9.0m(30 ft)	100	51.95	21.00	10.94	83.90
		125	41.56	21.00	9.38	**71.95**
		150	34.64	21.00	8.35	63.98
$68,000		100	58.88	23.80	12.40	95.08
		125	47.10	23.80	10.64	**81.54**
		150	39.25	23.80	9.46	72.51
$76,000	Air seeder 12.2 m (40 ft.)	100	65.81	26.60	13.86	106.27
		125	52.65	26.60	11.89	**91.13**
		150	43.87	26.60	10.57	81.04
$84,000	Air drill 9.0 m (30 ft.)	100	72.74	29.40	15.32	117.46
		125	58.19	29.40	13.14	**100.73**
		150	48.49	29.40	11.68	89.57
$92,000		100	79.66	32.20	16.78	128.64
		125	63.73	32.20	14.39	**110.32**
		150	53.11	32.20	12.80	98.10
$100,000	Air seeder 15.2 m (50 ft.)	100	86.59	35.00	18.24	139.83
		125	69.27	35.00	15.64	**119.91**
		150	57.73	35.00	13.91	106.64
$108,000	Air drill 12.0 m (40 ft.)	100	93.52	37.80	19.70	151.01
		125	74.81	37.80	16.89	**129.51**
		150	62.34	37.80	15.02	115.17
$116,000	Air seeder 18.3 m (60 ft.)	100	100.44	40.60	21.16	162.20
		125	80.36	40.60	18.14	**139.10**
		150	66.96	40.60	16.13	123.70
$124,000		100	107.37	43.40	22.62	173.39
		125	85.90	43.40	19.39	**148.69**
		150	71.58	43.40	17.25	132.23
$132,000		100	114.30	46.20	24.07	184.57
		125	91.44	46.20	20.65	**158.28**
		150	76.20	46.20	18.36	140.76
$140,000	Air drill 15.2 m (50 ft.)	100	121.23	49.00	25.53	195.76
		125	96.98	49.00	21.90	**167.88**
		150	80.82	49.00	19.47	149.29
$148,000		100	128.15	51.80	26.99	206.95
		125	102.52	51.80	23.15	**177.47**
		150	85.44	51.80	20.59	157.82
$156,000	Air drill 18.3m (60 ft.)	100	135.08	54.60	28.45	218.13
		125	108.06	54.60	24.40	**187.06**
		150	90.05	54.60	21.70	166.35

Note:There is a wide variation in air seeder and air drill prices, so your machine size may not agree with the new cost indicated. In this case,**use the actual new cos**t.

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

SEED DRILLS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$35,000	Press drill 3.7 m (12 ft.)	100	30.31	14.00	6.65	50.95
		125	24.25	14.00	5.74	**43.98**
		150	20.20	14.00	5.13	39.33
$40,000		100	34.64	16.00	7.60	58.23
		125	27.71	16.00	6.56	**50.27**
		150	23.09	16.00	5.86	44.95
$45,000	Press drill 6.1 m (20 ft.)	100	38.97	18.00	8.54	65.51
	No till drill 3.6 m (12 ft.)	125	31.17	18.00	7.38	**56.55**
		150	25.98	18.00	6.60	50.57
$50,000		100	43.30	20.00	9.49	72.79
		125	34.64	20.00	8.20	**62.83**
		150	28.86	20.00	7.33	56.19
$55,000	Press drill 8.5 m (28 ft.)	100	47.62	22.00	10.44	80.07
	No till drill 5.0 m (16 ft.)	125	38.10	22.00	9.01	**69.11**
		150	31.75	22.00	8.06	61.81
$60,000		100	51.95	24.00	11.39	87.35
		125	41.56	24.00	9.83	**75.40**
		150	34.64	24.00	8.80	67.43
$65,000	Press drill 10.9 m (36 ft.)	100	56.28	26.00	12.34	94.63
	No till drill 6.4 m (21 ft.)	125	45.03	26.00	10.65	**81.68**
		150	37.52	26.00	9.53	73.05
$70,000	Press drill 12.1 m (40 ft.)	100	60.61	28.00	13.29	101.90
	No till drill 7.3 m (24 ft.)	125	48.49	28.00	11.47	**87.96**
		150	40.41	28.00	10.26	78.67
$75,000		100	64.94	30.00	14.24	109.18
		125	51.95	30.00	12.29	**94.25**
		150	43.30	30.00	10.99	84.29
$80,000	Press drill 14.6 m (48 ft.)	100	69.27	32.00	15.19	116.46
	No till drill 8.5 m (28 ft.)	125	55.42	32.00	13.11	**100.53**
		150	46.18	32.00	11.73	89.91

NOTE: There is a wide variation in seed drill prices so your drill size may not agree with the new cost indicated. In this case, use the **actual new cost.** Press drill refers to a drill with either double disc or hoe type openers.

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

ROW CROP PLANTERS

New Cost	Average size	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$22,500	4 row planter	75	25.98	9.00	5.25	40.22
		100	19.48	9.00	4.27	**32.76**
		125	15.59	9.00	3.69	28.27
$30,000	6 row planter	75	34.64	12.00	7.00	53.63
		100	25.98	12.00	5.70	**43.67**
		125	20.78	12.00	4.92	37.70
$37,500	8 row planter	75	43.30	15.00	8.74	67.04
		100	32.47	15.00	7.12	**54.59**
		125	25.98	15.00	6.15	47.12
$45,000	10 row planter	75	51.95	18.00	10.49	80.45
		100	38.97	18.00	8.54	**65.51**
		125	31.17	18.00	7.38	56.55
$52,500	12 row planter	75	60.61	21.00	12.24	93.85
		100	45.46	21.00	9.97	**76.43**
		125	36.37	21.00	8.61	65.97
$60,000		75	69.27	24.00	13.99	107.26
		100	51.95	24.00	11.39	**87.35**
		125	41.56	24.00	9.83	75.40
$67,500	16 row planter	75	77.93	27.00	15.74	120.67
		100	58.45	27.00	12.82	**98.27**
		125	46.76	27.00	11.06	84.82

NOTE: There is a wide variation in planter prices, so your planter size may not agree with the new cost indicated. In this case, use the **actual new cost.**

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

MANURE SPREADERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$6,000		100	5.20	2.10	1.09	8.39
		125	4.16	2.10	0.94	**7.19**
		150	3.46	2.10	0.83	6.40
$8,250	6.0 cu. m (210 cu.ft.)	100	7.14	2.89	1.50	11.54
		125	5.71	2.89	1.29	**9.89**
		150	4.76	2.89	1.15	8.80
$10,500	8.1 cu. m (285 cu.ft.)	100	9.09	3.68	1.92	14.68
		125	7.27	3.68	1.64	**12.59**
		150	6.06	3.68	1.46	11.20
$12,500	10.0 cu. m (350 cu.ft.) side deliver 5.0 cu. m (175 cu.ft)	100	10.82	4.38	2.28	17.48
		125	8.66	4.38	1.96	**14.99**
		150	7.22	4.38	1.74	13.33
$14,500	12.0 cu. m (420 cu.ft.) side delivery, 5.9 cu. m (208 cu.ft.)	100	12.56	5.08	2.64	20.28
		125	10.04	5.08	2.27	**17.39**
		150	8.37	5.08	2.02	15.46
$18,000	14.0 cu. m (490 cu.ft.) side delivery, 7.0 cu. m (247 cu.ft.)	100	15.59	6.30	3.28	25.17
		125	12.47	6.30	2.82	**21.58**
		150	10.39	6.30	2.50	19.19
$20,500	8.1 cu. m (285 cu.ft.) side delivery	100	17.75	7.18	3.74	28.66
		125	14.20	7.18	3.21	**24.58**
		150	11.83	7.18	2.85	21.86
$23,000	9.1 cu. m (320 cu.ft.) side delivery	100	19.92	8.05	4.19	32.16
		125	15.93	8.05	3.60	**27.58**
		150	13.28	8.05	3.20	24.53
$25,000	10.0 cu. m (352 cu.ft.) side delivery	100	21.65	8.75	4.56	34.96
		125	17.32	8.75	3.91	**29.98**
		150	14.43	8.75	3.48	26.66

Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7

SPRAYERS (PT)

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$20,000	12.7 m (42 ft.)	40	43.30	10.00	7.99	61.29
		60	28.86	10.00	5.83	**44.69**
		80	21.65	10.00	4.75	36.39
$22,500	15.2 m (50 ft.)	40	48.71	11.25	8.99	68.95
		60	32.47	11.25	6.56	**50.28**
		80	24.35	11.25	5.34	40.94
$25,000	18.8 m (62 ft.)	40	54.12	12.50	9.99	76.61
		60	36.08	12.50	7.29	**55.87**
		80	27.06	12.50	5.93	45.49
$27,500	21.8 m (72 ft.)	40	59.53	13.75	10.99	84.27
		60	39.69	13.75	8.02	**61.45**
		80	29.77	13.75	6.53	50.04
$30,000	25.4 m (84 ft.)	40	64.94	15.00	11.99	91.93
		60	43.30	15.00	8.74	**67.04**
		80	32.47	15.00	7.12	54.59
$32,500	27.4 m (90 ft.)	40	70.35	16.25	12.99	99.60
		60	46.90	16.25	9.47	**72.63**
		80	35.18	16.25	7.71	59.14
$35,000	31.5 m (104 ft.)	40	75.77	17.50	13.99	107.26
		60	50.51	17.50	10.20	**78.21**
		80	37.88	17.50	8.31	63.69
$37,500	34.6 m (114 ft.)	40	81.18	18.75	14.99	114.92
		60	54.12	18.75	10.93	**83.80**
		80	40.59	18.75	8.90	68.24
$40,000	37.6 m (124 ft.)	40	86.59	20.00	15.99	122.58
		60	57.73	20.00	11.66	**89.39**
		80	43.30	20.00	9.49	72.79

NOTE: There is a wide variation in sprayer prices, so your sprayer size may not agree with the new cost indicated. In this case, use the **actual new cost**.

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

SPRAYERS (SP)

New Cost	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
		dollars per hour						
$80,000	150	46.18	12.00	8.73	66.91	8.32	10.00	85.23
	250	27.71	12.00	5.96	**45.67**	8.32	10.00	**63.99**
	350	19.79	12.00	4.77	36.56	8.32	10.00	54.88
$95,000	150	54.84	14.25	10.36	79.45	9.88	10.00	99.33
	250	32.90	14.25	7.07	**54.23**	9.88	10.00	**74.11**
	350	23.50	14.25	5.66	43.42	9.88	10.00	63.30
$110,000	150	63.50	16.50	12.00	92.00	11.44	10.00	113.44
	250	38.10	16.50	8.19	**62.79**	11.44	10.00	**84.23**
	350	27.21	16.50	6.56	50.27	11.44	10.00	71.71
$125,000	150	72.16	18.75	13.64	104.54	13.00	10.00	127.54
	250	43.30	18.75	9.31	**71.35**	13.00	10.00	**94.35**
	350	30.93	18.75	7.45	57.13	13.00	10.00	80.13
$140,000	150	80.82	21.00	15.27	117.09	14.56	10.00	141.65
	250	48.49	21.00	10.42	**79.91**	14.56	10.00	**104.47**
	350	34.64	21.00	8.35	63.98	14.56	10.00	88.54
$155,000	150	89.48	23.25	16.91	129.64	16.12	10.00	155.76
	250	53.69	23.25	11.54	**88.48**	16.12	10.00	**114.60**
	350	38.35	23.25	9.24	70.84	16.12	10.00	96.96
$170,000	150	98.14	25.50	18.55	142.18	17.68	10.00	169.86
	250	58.88	25.50	12.66	**97.04**	17.68	10.00	**124.72**
	350	42.06	25.50	10.13	77.69	17.68	10.00	105.37
$185,000	150	106.79	27.75	20.18	154.73	19.24	10.00	183.97
	250	64.08	27.75	13.77	**105.60**	19.24	10.00	**134.84**
	350	45.77	27.75	11.03	84.55	19.24	10.00	113.79
$200,000	150	115.45	30.00	21.82	167.27	20.80	10.00	198.07
	250	69.27	30.00	14.89	**114.16**	20.80	10.00	**144.96**
	350	49.48	30.00	11.92	91.40	20.80	10.00	122.20
$215,000	150	124.11	32.25	23.45	179.82	22.36	10.00	212.18
	250	74.47	32.25	16.01	**122.73**	22.36	10.00	**155.09**
	350	53.19	32.25	12.82	98.26	22.36	10.00	130.62
$230,000	150	132.77	34.50	25.09	192.36	23.92	10.00	226.28
	250	79.66	34.50	17.12	**131.29**	23.92	10.00	**165.21**
	350	56.90	34.50	13.71	105.11	23.92	10.00	139.03
$245,000	150	141.43	36.75	26.73	204.91	25.48	10.00	240.39
	250	84.86	36.75	18.24	**139.85**	25.48	10.00	**175.33**
	350	60.61	36.75	14.60	111.97	25.48	10.00	147.45
$260,000	150	150.09	39.00	28.36	217.45	27.04	10.00	254.49
	250	90.05	39.00	19.36	**148.41**	27.04	10.00	**185.45**
	350	64.32	39.00	15.50	118.82	27.04	10.00	155.86

CULTIVATORS

New Cost	Average size		Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
				dollars per hour			
$15,000			150	8.66	4.50	1.97	15.13
			200	6.49	4.50	1.65	**12.64**
			250	5.20	4.50	1.45	11.15
$20,000	Fixed Hitch	8.7 m (28 ft.	150	11.55	6.00	2.63	20.18
	Heavy Duty	7.6 m (25 ft.)	200	8.66	6.00	2.20	**16.86**
			250	6.93	6.00	1.94	14.87
$25,000	Fixed Hitch	10.8 m (35 ft.	150	14.43	7.50	3.29	25.22
	Heavy Duty	9.5 m(31 ft.)	200	10.82	7.50	2.75	**21.07**
			250	8.66	7.50	2.42	18.58
$30,000	Fixed Hitch	13.0 m (43 ft.	150	17.32	9.00	3.95	30.27
	Heavy Duty	11.4 m (37 ft.)	200	12.99	9.00	3.30	**25.29**
	Floating Hitch	7.6 m(25 ft.	250	10.39	9.00	2.91	22.30
$35,000	Fixed Hitch	15.2 m (50 ft.	150	20.20	10.50	4.61	35.31
	Heavy Duty	13 m (43 ft.)	200	15.15	10.50	3.85	**29.50**
	Floating Hitch	9.1 m(30 ft.	250	12.12	10.50	3.39	26.02
$40,000	Fixed Hitch	17.4 m (57 ft.	150	23.09	12.00	5.26	40.35
	Heavy Duty	15.2 m (50 ft.)	200	17.32	12.00	4.40	**33.72**
	Floating Hitch	10.7 m(35 ft.	250	13.85	12.00	3.88	29.73
$45,000	Fixed Hitch	19.5 m (64 ft.	150	25.98	13.50	5.92	45.40
	Heavy Duty	17.4 m (57 ft.	200	19.48	13.50	4.95	37.93
	Floating Hitch	12.2 m(40 ft.	250	15.59	13.50	4.36	33.45
$50,000	Floating Hitch	13.7 m (45ft.	150	28.86	15.00	6.58	50.44
			200	21.65	15.00	5.50	**42.14**
			250	17.32	15.00	4.85	37.17
$55,000	Floating Hitch	15.2 m (50 ft.	150	31.75	16.50	7.24	55.49
			200	23.81	16.50	6.05	**46.36**
			250	19.05	16.50	5.33	40.88
$60,000	Floating Hitch	16.8 m(55 ft.	150	34.64	18.00	7.90	60.53
			200	25.98	18.00	6.60	**50.57**
			250	20.78	18.00	5.82	44.60
$65,000	Floating Hitch	18.3 m (60 ft.	150	37.52	19.50	8.55	65.58
			200	28.14	19.50	7.15	**54.79**
			250	22.51	19.50	6.30	48.32

Note: There is a wide variation in cultivator prices, so your cultivator size may not agree with the new cost indicated. In this case, use the **actual new cost.**
*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

HARROWS and PACKERS

New Cost	Average size		Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
				dollars per hour			
$7,000	Harrows	9.3 m (30.7 ft.)	100	6.06	2.10	1.22	9.39
			125	4.85	2.10	1.04	**7.99**
			150	4.04	2.10	0.92	7.06
$10,000	Harrows	14.0 m (46 ft.)	100	8.66	3.00	1.75	13.41
	Packers	6.5 m (21 ft.)	125	6.93	3.00	1.49	**11.42**
			150	5.77	3.00	1.32	10.09
$13,000	Harrows	18.7 m (61 ft.)	100	11.26	3.90	2.27	17.43
	Packers	8.7 m (29 ft.)	125	9.01	3.90	1.94	**14.84**
	Har. Packer	7.6 m (25 ft.)	150	7.50	3.90	1.71	13.12
$16,000	Harrows	23.4 m (77 ft.)	100	13.85	4.80	2.80	21.45
	Packers	10.9 m (36 ft.)	125	11.08	4.80	2.38	**18.27**
	Har. Packer	9.5 m (31 ft.)	150	9.24	4.80	2.11	16.14
$19,000	Harrows	28.0 m (92 ft.)	100	16.45	5.70	3.32	25.47
	Packers	13 m (43 ft.)	125	13.16	5.70	2.83	**21.69**
	Har. Packer	11.5 m (38 ft.)	150	10.97	5.70	2.50	19.17
$22,000	Harrows	32.7 m (107 ft.)	100	19.05	6.60	3.85	29.50
	Packers	15.2 m (50 ft.)	125	15.24	6.60	3.28	**25.12**
	Har. Packer	13.4 m (44 ft.)	150	12.70	6.60	2.89	22.19
$25,000	Harrows	37.4 m (123 ft.)	100	21.65	7.50	4.37	33.52
	Packers	17.4 m (57 ft.)	125	17.32	7.50	3.72	**28.54**
	Har. Packer	15.2 m (50 ft.)	150	14.43	7.50	3.29	25.22
$28,000	Packers	19.6 m (64 ft.)	100	24.25	8.40	4.90	37.54
	Har. Packer	17.1 m (56 ft.)	125	19.40	8.40	4.17	**31.97**
	Heavy Har.	21.3 m (70 ft.)	150	16.16	8.40	3.68	28.25
$31,000	Har. Packer	19 m (62 ft.)	100	26.84	9.30	5.42	41.56
	Heavy Har.	25 m (82 ft.)	125	21.47	9.30	4.62	**35.39**
			150	17.90	9.30	4.08	31.27
$34,000	Har. Packer	21 m (69 ft.)	100	29.44	10.20	5.95	45.59
			125	23.55	10.20	5.06	**38.82**
			150	19.63	10.20	4.47	34.30
$37,000			100	32.04	11.10	6.47	49.61
			125	25.63	11.10	5.51	**42.24**
			150	21.36	11.10	4.87	37.33

NOTE: There is a wide variation in harrow and packer prices, so your harrow or packer size may not agree with the new cost indicated. In this case, use the **actual** new cost.
*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

TANDEM DISCS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$10,000		100	8.66	2.50	1.67	12.83
		125	6.93	2.50	1.41	10.84
		150	5.77	2.50	1.24	9.51
$14,000		100	12.12	3.50	2.34	17.97
		125	9.70	3.50	1.98	15.18
		150	8.08	3.50	1.74	13.32
$18,000	4.0 m (13.2 ft.)	100	15.59	4.50	3.01	23.10
		125	12.47	4.50	2.55	19.51
		150	10.39	4.50	2.23	17.12
$22,000	5.4 m (17.6 ft.)	100	19.05	5.50	3.68	28.23
		125	15.24	5.50	3.11	23.85
		150	12.70	5.50	2.73	20.93
$26,000	6.5 m (21.3 ft.)	100	22.51	6.50	4.35	33.37
		125	18.01	6.50	3.68	28.19
		150	15.01	6.50	3.23	24.74
$30,000	7.4 m (24.3 ft.)	100	25.98	7.50	5.02	38.50
		125	20.78	7.50	4.24	32.52
		150	17.32	7.50	3.72	28.54
$34,000	8.3 m (27.3 ft.)	100	29.44	8.50	5.69	43.63
		125	23.55	8.50	4.81	36.86
		150	19.63	8.50	4.22	32.35
$38,000	9.3 m (30.4 ft.)	100	32.90	9.50	6.36	48.76
		125	26.32	9.50	5.37	41.20
		150	21.94	9.50	4.72	36.15
$42,000	10.2 m (33.4 ft.)	100	36.37	10.50	7.03	53.90
		125	29.09	10.50	5.94	45.53
		150	24.25	10.50	5.21	39.96
$46,000	11.1 m (36.4 ft.)	100	39.83	11.50	7.70	59.03
		125	31.87	11.50	6.50	49.87
		150	26.55	11.50	5.71	43.76
$50,000	12.1 m (39.5 ft.)	100	43.30	12.50	8.37	64.16
		125	34.64	12.50	7.07	54.21
		150	28.86	12.50	6.20	47.57

Note: There is a wide variation in tandem disc prices, so your disc size may not agree with the new cost indicated. In this case, use the **actual new cost**.

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

PLOWS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$15,000	1.8 m (6.0 ft.)	100	12.99	4.50	2.62	20.11
		125	10.39	4.50	2.23	**17.12**
		150	8.66	4.50	1.97	15.13
$17,500	2.2 m (7.4 ft.)	100	15.15	5.25	3.06	23.46
		125	12.12	5.25	2.61	**19.98**
		150	10.10	5.25	2.30	17.65
$20,000	2.7 m (8.9 ft.)	100	17.32	6.00	3.50	26.82
		125	13.85	6.00	2.98	**22.83**
		150	11.55	6.00	2.63	20.18
$22,500	3.1 m (10.3 ft.)	100	19.48	6.75	3.93	30.17
		125	15.59	6.75	3.35	**25.69**
		150	12.99	6.75	2.96	22.70
$25,000	3.5 m (11.8 ft.)	100	21.65	7.50	4.37	33.52
		125	17.32	7.50	3.72	**28.54**
		150	14.43	7.50	3.29	25.22
$27,500	4.0 m (13.2 ft.)	100	23.81	8.25	4.81	36.87
		125	19.05	8.25	4.09	**31.39**
		150	15.87	8.25	3.62	27.74
$30,000	4.5 m (14.7 ft.)	100	25.98	9.00	5.25	40.22
		125	20.78	9.00	4.47	**34.25**
		150	17.32	9.00	3.95	30.27
$32,500	4.9 m (16.1 ft.)	100	28.14	9.75	5.68	43.58
		125	22.51	9.75	4.84	**37.10**
		150	18.76	9.75	4.28	32.79
$35,000	5.4 m (17.6 ft.)	100	30.31	10.50	6.12	46.93
		125	24.25	10.50	5.21	**39.96**
		150	20.20	10.50	4.61	35.31

ROCKPICKERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$8,000	fork type - small	75	9.24	3.20	1.87	14.30
	windrower - 3.0 m (10 ft.)	100	6.93	3.20	1.52	**11.65**
		125	5.54	3.20	1.31	10.05
$12,000	fork type -medium	75	13.85	4.80	2.80	21.45
	reel type - small	100	10.39	4.80	2.28	**17.47**
	windrower - 4.3 m (14 ft.)	125	8.31	4.80	1.97	15.08
$16,000	fork type - large	75	18.47	6.40	3.73	28.60
	reel type - medium	100	13.85	6.40	3.04	**23.29**
	windrower - 6.1 m (20 ft.)	125	11.08	6.40	2.62	20.11
$20,000	reel type - large	75	23.09	8.00	4.66	35.75
		100	17.32	8.00	3.80	**29.12**
		125	13.85	8.00	3.28	25.13

NOTE: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

SP WINDROWERS

New Cost	Average size	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
			dollars per hour						
$65,000		100	56.28	19.50	11.37	87.15	7.74	10.00	104.90
		125	**45.03**	**19.50**	**9.68**	**74.21**	**7.74**	**10.00**	**91.95**
		150	37.52	19.50	8.55	65.58	7.74	10.00	83.32
$68,000		100	58.88	20.40	11.89	91.17	8.10	10.00	109.28
		125	**47.10**	**20.40**	**10.13**	**77.63**	**8.10**	**10.00**	**95.73**
		150	39.25	20.40	8.95	68.60	8.10	10.00	86.70
$71,000		100	61.48	21.30	12.42	95.20	8.46	10.00	113.66
		125	**49.18**	**21.30**	**10.57**	**81.06**	**8.46**	**10.00**	**99.51**
		150	40.99	21.30	9.34	71.63	8.46	10.00	90.09
$74,000	6.4 m (21 ft.) diesel engine	100	64.08	22.20	12.94	99.22	8.82	10.00	118.03
		125	**51.26**	**22.20**	**11.02**	**84.48**	**8.82**	**10.00**	**103.30**
		150	42.72	22.20	9.74	74.66	8.82	10.00	93.47
$77,000	7.6 m (25 ft.) diesel engine	100	66.67	23.10	13.47	103.24	9.17	10.00	122.41
		125	**53.34**	**23.10**	**11.47**	**87.91**	**9.17**	**10.00**	**107.08**
		150	44.45	23.10	10.13	77.68	9.17	10.00	96.86
$80,000	9.1 m (30 ft.) diesel engine	100	69.27	24.00	13.99	107.26	9.53	10.00	126.79
		125	**55.42**	**24.00**	**11.91**	**91.33**	**9.53**	**10.00**	**110.86**
		150	46.18	24.00	10.53	80.71	9.53	10.00	100.24
$83,000		100	71.87	24.90	14.52	111.29	9.89	10.00	131.17
		125	**57.50**	**24.90**	**12.36**	**94.76**	**9.89**	**10.00**	**114.64**
		150	47.91	24.90	10.92	83.74	9.89	10.00	103.62
$86,000		100	74.47	25.80	15.04	115.31	10.25	10.00	135.55
		125	**59.57**	**25.80**	**12.81**	**98.18**	**10.25**	**10.00**	**118.43**
		150	49.64	25.80	11.32	86.76	10.25	10.00	107.01
$89,000	7.6 m (25 ft.) turbo diesel	100	77.07	26.70	15.56	119.33	10.60	10.00	139.93
		125	**61.65**	**26.70**	**13.25**	**101.60**	**10.60**	**10.00**	**122.21**
		150	51.38	26.70	11.71	89.79	10.60	10.00	110.39
$92,000	9.1 m (30 ft.) turbo diesel	100	79.66	27.60	16.09	123.35	10.96	10.00	144.31
		125	**63.73**	**27.60**	**13.70**	**105.03**	**10.96**	**10.00**	**125.99**
		150	53.11	27.60	12.11	92.81	10.96	10.00	113.78
$95,000	11 m (36 ft.) turbo diesel	100	82.26	28.50	16.61	127.37	11.32	10.00	148.69
		125	**65.81**	**28.50**	**14.15**	**108.45**	**11.32**	**10.00**	**129.77**
		150	54.84	28.50	12.50	95.84	11.32	10.00	117.16
$98,000		100	84.86	29.40	17.14	131.40	11.68	10.00	153.07
		125	**67.89**	**29.40**	**14.59**	**111.88**	**11.68**	**10.00**	**133.56**
		150	56.57	29.40	12.90	98.87	11.68	10.00	120.54

PT WINDROWERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$14,000		100	12.12	4.90	2.55	19.58
		125	9.70	4.90	2.19	**16.79**
		150	8.08	4.90	1.95	14.93
$16,000		100	13.85	5.60	2.92	22.37
		125	11.08	5.60	2.50	**19.19**
		150	9.24	5.60	2.23	17.06
$18,000		100	15.59	6.30	3.28	25.17
		125	12.47	6.30	2.82	**21.58**
		150	10.39	6.30	2.50	19.19
$20,000	6.4 m (21 ft.)	100	17.32	7.00	3.65	27.97
		125	13.85	7.00	3.13	**23.98**
		150	11.55	7.00	2.78	21.33
$22,000	7.6 m (25 ft.)	100	19.05	7.70	4.01	30.76
		125	15.24	7.70	3.44	**26.38**
		150	12.70	7.70	3.06	23.46
$24,000		100	20.78	8.40	4.38	33.56
		125	16.63	8.40	3.75	**28.78**
		150	13.85	8.40	3.34	25.59
$26,000	9.1 m (30 ft.)	100	22.51	9.10	4.74	36.36
		125	18.01	9.10	4.07	**31.18**
		150	15.01	9.10	3.62	27.73
$28,000		100	24.25	9.80	5.11	39.15
		125	19.40	9.80	4.38	**33.58**
		150	16.16	9.80	3.89	29.86
$30,000	11 m (36 ft.)	100	25.98	10.50	5.47	41.95
		125	20.78	10.50	4.69	**35.97**
		150	17.32	10.50	4.17	31.99
$32,000		100	27.71	11.20	5.84	44.75
		125	22.17	11.20	5.01	**38.37**
		150	18.47	11.20	4.45	34.12
$34,000		100	29.44	11.90	6.20	47.54
		125	23.55	11.90	5.32	**40.77**
		150	19.63	11.90	4.73	36.26

Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7

SP COMBINES

New Cost	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
		dollars per hour						
$75,000	100	64.94	13.12	11.71	89.78	10.83	10.00	110.61
	175	37.11	15.75	7.93	**60.79**	10.83	10.00	**81.62**
	250	25.98	18.38	6.65	51.01	10.83	10.00	71.84
$100,000	100	86.59	17.50	15.61	119.70	14.44	10.00	144.15
	175	49.48	21.00	10.57	**81.05**	14.44	10.00	**105.50**
	250	34.64	24.50	8.87	68.01	14.44	10.00	92.45
$125,000	100	108.24	21.87	19.52	149.63	18.05	10.00	177.68
	175	61.85	26.25	13.22	**101.32**	18.05	10.00	**129.37**
	250	43.30	30.63	11.09	85.01	18.05	10.00	113.07
$150,000	100	129.89	26.25	23.42	179.56	21.66	10.00	211.22
	175	74.22	31.50	15.86	**121.58**	21.66	10.00	**153.25**
	250	51.95	36.75	13.31	102.01	21.66	10.00	133.68
$175,000	100	151.53	30.62	27.32	209.48	25.28	10.00	244.76
	175	86.59	36.75	18.50	**141.84**	25.28	10.00	**177.12**
	250	60.61	42.88	15.52	119.02	25.28	10.00	154.29
$200,000	100	173.18	35.00	31.23	239.41	28.89	10.00	278.29
	175	98.96	42.00	21.14	**162.11**	28.89	10.00	**200.99**
	250	69.27	49.01	17.74	136.02	28.89	10.00	174.91
$225,000	100	194.83	39.37	35.13	269.33	32.50	10.00	311.83
	175	111.33	47.25	23.79	**182.37**	32.50	10.00	**224.87**
	250	77.93	55.13	19.96	153.02	32.50	10.00	195.52
$250,000	100	216.48	43.75	39.03	299.26	36.11	10.00	345.37
	175	123.70	52.50	26.43	**202.63**	36.11	10.00	**248.74**
	250	86.59	61.26	22.18	170.02	36.11	10.00	216.13
$275,000	100	238.12	48.12	42.94	329.18	39.72	10.00	378.90
	175	136.07	57.75	29.07	**222.90**	39.72	10.00	**272.62**
	250	95.25	67.38	24.39	187.03	39.72	10.00	236.75
$300,000	100	259.77	52.50	46.84	359.11	43.33	10.00	412.44
	175	148.44	63.00	31.72	**243.16**	43.33	10.00	**296.49**
	250	103.91	73.51	26.61	204.03	43.33	10.00	257.36
$325,000	100	281.42	56.87	50.74	389.04	46.94	10.00	445.98
	175	160.81	68.25	34.36	**263.42**	46.94	10.00	**320.36**
	250	112.57	79.64	28.83	221.03	46.94	10.00	277.97
$350,000	100	303.07	61.25	54.65	418.96	50.55	10.00	479.51
	175	173.18	73.51	37.00	**283.69**	50.55	10.00	**344.24**
	250	121.23	85.76	31.05	238.03	50.55	10.00	298.59
$375,000	100	324.71	65.62	58.55	448.89	54.16	10.00	513.05
	175	185.55	78.76	39.65	**303.95**	54.16	10.00	**368.11**
	250	129.89	91.89	33.27	255.04	54.16	10.00	319.20

GRAIN DRYERS

New Cost	Average size	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Power* Cost	Labour Cost	Custom Rate	Propane Cost** (see bottom of table)
			dollars per hour							
$25,000		100	21.65	3.75	3.81	29.21	1.13	10.00	40.33	
		150	**14.43**	**3.75**	**2.73**	**20.91**	**1.13**	**10.00**	**32.03**	
		200	10.82	3.75	2.19	16.76	1.13	10.00	27.88	
$30,000	250 bu. Recir.batch	100	25.98	4.50	4.57	35.05	1.35	10.00	46.40	
		150	**17.32**	**4.50**	**3.27**	**25.09**	**1.35**	**10.00**	**36.44**	
		200	12.99	4.50	2.62	20.11	1.35	10.00	31.46	
$35,000	Stationary Batch (180 bu.)	100	30.31	5.25	5.33	40.89	1.58	10.00	52.46	
		150	**20.20**	**5.25**	**3.82**	**29.27**	**1.58**	**10.00**	**40.85**	
		200	15.15	5.25	3.06	23.46	1.58	10.00	35.04	
$40,000	350 bu. Recir. Batch	100	34.64	6.00	6.10	46.73	1.80	10.00	58.53	
		150	**23.09**	**6.00**	**4.36**	**33.45**	**1.80**	**10.00**	**45.25**	
		200	17.32	6.00	3.50	26.82	1.80	10.00	38.62	
$45,000	450 bu. Recir. Batch Small Cont. Flow	100	38.97	6.75	6.86	52.57	2.03	10.00	64.60	
		150	**25.98**	**6.75**	**4.91**	**37.64**	**2.03**	**10.00**	**49.66**	
		200	19.48	6.75	3.93	30.17	2.03	10.00	42.19	
$50,000	Stationary Batch (250 bu.)	100	43.30	7.50	7.62	58.41	2.25	10.00	70.66	
		150	**28.86**	**7.50**	**5.45**	**41.82**	**2.25**	**10.00**	**54.07**	
		200	21.65	7.50	4.37	33.52	2.25	10.00	45.77	
$55,000		100	47.62	8.25	8.38	64.26	2.48	10.00	76.73	
		150	**31.75**	**8.25**	**6.00**	**46.00**	**2.48**	**10.00**	**58.47**	
		200	23.81	8.25	4.81	36.87	2.48	10.00	49.35	
$60,000	Med. Cont. Flow	100	51.95	9.00	9.14	70.10	2.70	10.00	82.80	
		150	**34.64**	**9.00**	**6.55**	**50.18**	**2.70**	**10.00**	**62.88**	
		200	25.98	9.00	5.25	40.22	2.70	10.00	52.92	
$65,000		100	56.28	9.75	9.91	75.94	2.93	10.00	88.86	
		150	**37.52**	**9.75**	**7.09**	**54.36**	**2.93**	**10.00**	**67.29**	
		200	28.14	9.75	5.68	43.58	2.93	10.00	56.50	
$70,000	Stationary Batch (400 bu.)	100	60.61	10.50	10.67	81.78	3.15	10.00	94.93	
		150	**40.41**	**10.50**	**7.64**	**58.54**	**3.15**	**10.00**	**71.69**	
		200	30.31	10.50	6.12	46.93	3.15	10.00	60.08	
$75,000	Large Cont. Flow	100	64.94	11.25	11.43	87.62	3.38	10.00	101.00	
		150	**43.30**	**11.25**	**8.18**	**62.73**	**3.38**	**10.00**	**76.10**	
		200	32.47	11.25	6.56	50.28	3.38	10.00	63.65	
$80,000		100	69.27	12.00	12.19	93.46	3.60	10.00	107.06	
		150	**46.18**	**12.00**	**8.73**	**66.91**	**3.60**	**10.00**	**80.51**	
		200	34.64	12.00	7.00	53.63	3.60	10.00	67.23	

New Cost should include dryer and associated grain handling equipment. Wet/dry surge and cooling bins should not be included.

*Power costs include hydro costs for dryer operation. If tractor driven, use tractor cost (plus fuel) and hydro costs for load/unload augers.

Propane Costs:

**Propane costs will vary greatly depending upon ambient air temperature, drying temperature, grain type, moisture removed, dryer type etc.

Actual propane consumption should be used in determining costs. For approximate costs, use chart below with appropriate ambient temperature correction factor. Costs assume propane at $0.30 per litre and a drying air temperature of 65 degrees C.

	2.5% moisture removal	5.5% moisture removal
Wheat/Barley	$0.05 per bu.(w.b.)*	$0.09 per bu.(w.b.)*
Oilseeds	$0.04 per bu.(w.b.)*	$0.07 per bu.(w.b.)*

*wet bushels

Note: Costs shown assume an ambient air temperatures of 15 degrees C.

For lower ambient air temperatures, multiply propane cost by the following factors:

15 degrees C = 1.0
-7 degrees C = 1.5
-30 degrees C = 2.0

Sample calculation shown in Appendix, page 33.

MOWER CONDITIONERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$18,000	2.8 m (9.2 ft.)	100	15.63	6.30	3.29	25.23
		125	12.51	6.30	2.82	**21.63**
		150	10.42	6.30	2.51	19.23
$21,000		100	18.24	7.35	3.84	29.43
		125	14.59	7.35	3.29	**25.23**
		150	12.16	7.35	2.93	22.44
$25,000	disc mower 3.15 m (10.3 ft.)	100	21.72	8.75	4.57	35.03
		125	17.37	8.75	3.92	**30.04**
		150	14.48	8.75	3.48	26.71
$29,000	3.7 m (12 ft.)	100	25.19	10.15	5.30	40.64
		125	20.15	10.15	4.55	**34.85**
		150	16.79	10.15	4.04	30.98
$32,000	4.3 m (14 ft.) disc mower 3.96 m (13 ft.)	100	27.80	11.20	5.85	44.84
		125	22.24	11.20	5.02	**38.45**
		150	18.53	11.20	4.46	34.19
$34,000	4.9 m (16 ft.)	100	29.53	11.90	6.21	47.65
		125	23.63	11.90	5.33	**40.85**
		150	19.69	11.90	4.74	36.33
$39,000	disc mower 4.75 m (15.6 ft.)	100	33.88	13.65	7.13	54.65
		125	27.10	13.65	6.11	**46.86**
		150	22.58	13.65	5.44	41.67

MOWERS and RAKES

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$6,000		100	5.66	2.10	1.16	8.92
		125	4.53	2.10	0.99	**7.62**
		150	3.77	2.10	0.88	6.75
$7,000	rake 2.6 m (8.5 ft.) wheel rake 4.2 m (14 ft.)	100	6.60	2.45	1.36	10.41
		125	5.28	2.45	1.16	**8.89**
		150	4.40	2.45	1.03	7.88
$8,000	rake 2.9 m (9.5 ft.) mower 2.7 m (9 ft.)	100	7.54	2.80	1.55	11.89
		125	6.03	2.80	1.33	**10.16**
		150	5.03	2.80	1.17	9.00
$9,000		100	8.49	3.15	1.75	13.38
		125	6.79	3.15	1.49	**11.43**
		150	5.66	3.15	1.32	10.13
$10,000	wheel rake 7.6 m (25 ft.)	100	9.43	3.50	1.94	14.87
		125	7.54	3.50	1.66	**12.70**
		150	6.29	3.50	1.47	11.25

NOTE: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

BALE MOVERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$10,000	7 round bales	100	8.66	3.00	1.75	13.41
		150	5.77	3.00	1.32	**10.09**
		200	4.33	3.00	1.10	8.43
$13,000	9 round bales	100	11.26	3.90	2.27	17.43
		150	7.50	3.90	1.71	**13.12**
		200	5.63	3.90	1.43	10.96
$16,000	3 large square bales	100	13.85	4.80	2.80	21.45
		150	9.24	4.80	2.11	**16.14**
		200	6.93	4.80	1.76	13.49
$19,000	14 round bales	100	16.45	5.70	3.32	25.47
		150	10.97	5.70	2.50	**19.17**
		200	8.23	5.70	2.09	16.01
$22,000		100	19.05	6.60	3.85	29.50
		150	12.70	6.60	2.89	**22.19**
		200	9.52	6.60	2.42	18.54

PTO FORAGE HARVESTERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$20,000		75	23.16	8.00	4.67	35.84
		100	17.37	8.00	3.81	**29.18**
		125	13.90	8.00	3.28	25.18
$25,000		75	28.95	10.00	5.84	44.80
		100	21.72	10.00	4.76	**36.47**
		125	17.37	10.00	4.11	31.48
$30,000	small - pickup header 100 kW (134 hp)	75	34.74	12.00	7.01	53.76
		100	26.06	12.00	5.71	**43.77**
		125	20.85	12.00	4.93	37.77
$35,000	small - rowcrop header 100 kW (134 hp)	75	40.53	14.00	8.18	62.71
		100	30.40	14.00	6.66	**51.06**
		125	24.32	14.00	5.75	44.07
$40,000	medium - pickup header 135 kW(180 hp)	75	46.33	16.00	9.35	71.67
		100	34.74	16.00	7.61	**58.36**
		125	27.80	16.00	6.57	50.36
$45,000	medium - rowcrop header 135 kW (180 hp)	75	52.12	18.00	10.52	80.63
		100	39.09	18.00	8.56	**65.65**
		125	31.27	18.00	7.39	56.66
$50,000	large - pickup header 185 kW (250 hp)	75	57.91	20.00	11.69	89.59
		100	43.43	20.00	9.51	**72.94**
		125	34.74	20.00	8.21	62.96
$55,000	large - rowcrop header 185 kW (250 hp)	75	63.70	22.00	12.85	98.55
		100	47.77	22.00	10.47	**80.24**
		125	38.22	22.00	9.03	69.25

Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

SP FORAGE HARVESTORS

New Cost	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
		dollars per hour						
$160,000	350	40.29	48.00	13.24	101.54	29.29	10.00	140.82
	400	35.26	48.00	12.49	**95.74**	29.29	10.00	**135.03**
	450	31.34	48.00	11.90	91.24	29.29	10.00	130.53
$180,000	350	45.33	54.00	14.90	114.23	32.95	10.00	157.18
	400	39.66	54.00	14.05	**107.71**	32.95	10.00	**150.66**
	450	35.26	54.00	13.39	102.64	32.95	10.00	145.59
$200,000	350	50.37	60.00	16.55	126.92	36.61	10.00	173.53
	400	44.07	60.00	15.61	**119.68**	36.61	10.00	**166.29**
	450	39.17	60.00	14.88	114.05	36.61	10.00	160.66
$220,000	350	55.40	66.00	18.21	139.61	40.27	10.00	189.88
	400	48.48	66.00	17.17	**131.65**	40.27	10.00	**181.92**
	450	43.09	66.00	16.36	125.45	40.27	10.00	175.72
$240,000	350	60.44	72.00	19.87	152.30	43.93	10.00	206.23
	400	52.88	72.00	18.73	**143.62**	43.93	10.00	**197.55**
	450	47.01	72.00	17.85	136.86	43.93	10.00	190.79
$260,000	350	65.48	78.00	21.52	165.00	47.59	10.00	222.59
	400	57.29	78.00	20.29	**155.58**	47.59	10.00	**213.18**
	450	50.93	78.00	19.34	148.26	47.59	10.00	205.85
$280,000	350	70.51	84.00	23.18	177.69	51.25	10.00	238.94
	400	61.70	84.00	21.85	**167.55**	51.25	10.00	**228.80**
	450	54.84	84.00	20.83	159.67	51.25	10.00	220.92
$300,000	350	75.55	90.00	24.83	190.38	54.91	10.00	255.29
	400	66.11	90.00	23.42	**179.52**	54.91	10.00	**244.43**
	450	58.76	90.00	22.31	171.07	54.91	10.00	235.99
$320,000	350	80.59	96.00	26.49	203.07	58.57	10.00	271.65
	400	70.51	96.00	24.98	**191.49**	58.57	10.00	**260.06**
	450	62.68	96.00	23.80	182.48	58.57	10.00	251.05
$340,000	350	85.62	102.00	28.14	215.76	62.23	10.00	288.00
	400	74.92	102.00	26.54	**203.46**	62.23	10.00	**275.69**
	450	66.59	102.00	25.29	193.88	62.23	10.00	266.12
$360,000	350	90.66	108.00	29.80	228.46	65.89	10.00	304.35
	400	79.33	108.00	28.10	**215.42**	65.89	10.00	**291.32**
	450	70.51	108.00	26.78	205.29	65.89	10.00	281.18
$380,000	350	95.69	114.00	31.45	241.15	69.56	10.00	320.70
	400	83.73	114.00	29.66	**227.39**	69.56	10.00	**306.95**
	450	74.43	114.00	28.26	216.69	69.56	10.00	296.25
$400,000	350	100.73	120.00	33.11	253.84	73.22	10.00	337.06
	400	88.14	120.00	31.22	**239.36**	73.22	10.00	**322.58**
	450	78.35	120.00	29.75	228.10	73.22	10.00	311.31

FORAGE BLOWERS and WAGONS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$7,500	med. capacity blower	100	6.49	2.25	1.31	10.06
		150	4.33	2.25	0.99	**7.57**
		200	3.25	2.25	0.82	6.32
$10,000	high capacity blower	100	8.66	3.00	1.75	13.41
		150	5.77	3.00	1.32	**10.09**
		200	4.33	3.00	1.10	8.43
$12,500		100	10.82	3.75	2.19	16.76
		150	7.22	3.75	1.64	**12.61**
		200	5.41	3.75	1.37	**10.54**
$15,000	S.U.22 cu. m (780 cu.ft.) H.D.16 cu. m (560 cu.ft.)	100	12.99	4.50	2.62	20.11
		150	8.66	4.50	1.97	**15.13**
		200	6.49	4.50	1.65	12.64
$17,500	S.U.27 cu. m (940 cu.ft.) H.D.19 cu. m (670 cu.ft.)	100	15.15	5.25	3.06	23.46
		150	10.10	5.25	2.30	**17.65**
		200	7.58	5.25	1.92	14.75
$20,000	S.U.31 cu. m (1100 cu.ft.) H.D.22 cu. m (780 cu.ft.)	100	17.32	6.00	3.50	26.82
		150	11.55	6.00	2.63	**20.18**
		200	8.66	6.00	2.20	16.86
$22,500	H.D.25 cu. m (890 cu.ft.)	100	19.48	6.75	3.93	30.17
		150	12.99	6.75	2.96	**22.70**
		200	9.74	6.75	2.47	18.97
$25,000	H.D.28 cu. m (1000 cu.ft.)	100	21.65	7.50	4.37	33.52
		150	14.43	7.50	3.29	**25.22**
		200	10.82	7.50	2.75	21.07

S.U. = self unloading forage wagon
H.D. = high dump forage wagon
Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

ROUND BALERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$17,000		75	19.69	5.10	3.72	28.51
		100	14.77	5.10	2.98	**22.85**
		125	11.81	5.10	2.54	19.45
$19,000	1.2 x 1.2 m (4 x 4 ft.) (dia. x width)	75	22.00	5.70	4.16	31.86
		100	16.50	5.70	3.33	**25.53**
		125	13.20	5.70	2.84	21.74
$21,000		75	24.32	6.30	4.59	35.21
		100	18.24	6.30	3.68	**28.22**
		125	14.59	6.30	3.13	24.03
$23,000	1.2 x 1.5 m (4 x 5 ft.) (dia. x width)	75	26.64	6.90	5.03	38.57
		100	19.98	6.90	4.03	**30.91**
		125	15.98	6.90	3.43	26.31
$25,000		75	28.95	7.50	5.47	41.92
		100	21.72	7.50	4.38	**33.60**
		125	17.37	7.50	3.73	28.60
$27,000	1.8 x 1.2 m (6 x 4 ft.) 1.5 x 1.2 m (5 x 4 ft.) (dia. x width)	75	31.27	8.10	5.91	45.28
		100	23.45	8.10	4.73	**36.29**
		125	18.76	8.10	4.03	30.89
$29,000		75	33.59	8.70	6.34	48.63
		100	25.19	8.70	5.08	**38.97**
		125	20.15	8.70	4.33	33.18
$32,000		75	37.06	9.60	7.00	53.66
		100	27.80	9.60	5.61	**43.00**
		125	22.24	9.60	4.78	36.61
$35,000	1.8 x 1.5 m (6 x 5 ft.) (dia. x width)	75	40.53	10.50	7.66	58.69
		100	30.40	10.50	6.14	**47.04**
		125	24.32	10.50	5.22	40.04
$39,000		75	45.17	11.70	8.53	65.40
		100	33.88	11.70	6.84	**52.41**
		125	27.10	11.70	5.82	44.62

NOTE: Twine cost is not included. Mesh or net wrap adds $3-5000 to the above costs.

*There is a wide variation in round baler prices, so your baler size may not agree with the new cost indicated. In this case, use the **actual new cost.**

*Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

SQUARE BALERS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
Small Square						
$18,000	36 x 46 cm (14 x 18 in.)	75	20.85	6.30	4.07	31.22
		100	15.63	6.30	3.29	**25.23**
		125	12.51	6.30	2.82	21.63
$21,000	36 x 46 cm (14 x 18 in.)	75	24.32	7.35	4.75	36.42
		100	18.24	7.35	3.84	**29.43**
		125	14.59	7.35	3.29	25.23
$24,000		75	27.80	8.40	5.43	41.62
		100	20.85	8.40	4.39	**33.63**
		125	16.68	8.40	3.76	28.84
$27,000	41 x 46 cm (16 x 18 in.)	75	31.27	9.45	6.11	46.83
		100	23.45	9.45	4.94	**37.84**
		125	18.76	9.45	4.23	32.44
$30,000	41 x 46 cm (16 x 18 in.)	75	34.74	10.50	6.79	52.03
		100	26.06	10.50	5.48	**42.04**
		125	20.85	10.50	4.70	36.05
Big Square						
$75,000		100	65.15	26.25	13.71	105.10
		150	43.43	26.25	10.45	**80.13**
		200	32.57	26.25	8.82	67.65
$85,000	80 x 90 cm(31.5" x 35.4")	100	73.83	29.75	15.54	119.12
		150	49.22	29.75	11.85	**90.82**
		200	36.92	29.75	10.00	76.67
$95,000		100	82.52	33.25	17.37	133.13
		150	55.01	33.25	13.24	**101.50**
		200	41.26	33.25	11.18	85.68
$105,000	90 x 120 cm (36" x 48")	100	91.20	36.75	19.19	147.15
		150	60.80	36.75	14.63	**112.18**
		200	45.60	36.75	12.35	94.70
$115,000	118 x 127 cm (47" x 50")	100	99.89	40.25	21.02	161.16
		150	66.59	40.25	16.03	**122.87**
		200	49.94	40.25	13.53	103.72

Note: Twine cost is not included in the above rates.
*Rental rate does **NOT** include cost of tractor unit. See Pages 6-7.

SP BALE WAGONS

New Cost	Average size	Annual Hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate
			dollars per hour						
$90,000		150	51.95	2.25	8.13	62.33	8.78	10.00	81.11
		200	38.97	2.25	6.18	**47.40**	8.78	10.00	**66.17**
		250	31.17	2.25	5.01	38.44	8.78	10.00	57.21
$100,000		150	57.73	2.50	9.03	69.26	9.75	10.00	89.01
		200	43.30	2.50	6.87	**52.66**	9.75	10.00	**72.41**
		250	34.64	2.50	5.57	42.71	9.75	10.00	62.46
$110,000		150	63.50	2.75	9.94	76.19	10.73	10.00	96.91
		200	47.62	2.75	7.56	**57.93**	10.73	10.00	**78.66**
		250	38.10	2.75	6.13	46.98	10.73	10.00	67.70
$120,000		150	69.27	3.00	10.84	83.11	11.70	10.00	104.81
		200	51.95	3.00	8.24	**63.20**	11.70	10.00	**84.90**
		250	41.56	3.00	6.68	51.25	11.70	10.00	72.95
$130,000	160 bales	150	75.04	3.25	11.74	90.04	12.68	10.00	112.71
	36 x 46 cm	200	56.28	3.25	8.93	**68.46**	12.68	10.00	**91.14**
	(14 x 18 in.)	250	45.03	3.25	7.24	55.52	12.68	10.00	78.19
$140,000		150	80.82	3.50	12.65	96.96	13.65	10.00	120.61
		200	60.61	3.50	9.62	**73.73**	13.65	10.00	**97.38**
		250	48.49	3.50	7.80	59.79	13.65	10.00	83.44

PTO BALE WAGONS

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$20,000		100	17.32	5.00	3.35	25.67
		150	11.55	5.00	2.48	**19.03**
		200	8.66	5.00	2.05	15.71
$26,000	83 bales	100	22.51	6.50	4.35	33.37
	36 x 46 cm	150	15.01	6.50	3.23	**24.74**
	(14 x 18 in.)	200	11.26	6.50	2.66	20.42
$32,000		100	27.71	8.00	5.36	41.07
		150	18.47	8.00	3.97	**30.44**
		200	13.85	8.00	3.28	25.13
$38,000	55 bales	100	32.90	9.50	6.36	48.76
	41 x 46 cm	150	21.94	9.50	4.72	**36.15**
	(16 x 18 in.)	200	16.45	9.50	3.89	29.84
$44,000	104 bales	100	38.10	11.00	7.36	56.46
	36 x 46 cm	150	25.40	11.00	5.46	**41.86**
	(14 x 18 in.)	200	19.05	11.00	4.51	34.56
$50,000		100	43.30	12.50	8.37	64.16
		150	28.86	12.50	6.20	**47.57**
		200	21.65	12.50	5.12	39.27

Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

POTATO EQUIPMENT

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$45,000	Band Sprayer (96')	100	38.97	15.75	8.21	62.92
		150	25.98	15.75	6.26	**47.99**
		200	19.48	15.75	5.28	40.52
$50,000		100	43.30	17.50	9.12	69.91
		150	28.86	17.50	6.95	**53.32**
		200	21.65	17.50	5.87	45.02
$55,000		100	47.62	19.25	10.03	76.91
		150	31.75	19.25	7.65	**58.65**
		200	23.81	19.25	6.46	49.52
$60,000		100	51.95	21.00	10.94	83.90
		150	34.64	21.00	8.35	**63.98**
		200	25.98	21.00	7.05	54.02
$65,000	6 row potato planter	100	56.28	22.75	11.86	90.89
		150	37.52	22.75	9.04	**69.31**
		200	28.14	22.75	7.63	58.53
$70,000	2 row potato harvester	100	60.61	24.50	12.77	97.88
		150	40.41	24.50	9.74	**74.64**
		200	30.31	24.50	8.22	63.03
$75,000		100	64.94	26.25	13.68	104.87
		150	43.30	26.25	10.43	**79.98**
		200	32.47	26.25	8.81	67.53
$80,000	8 row potato planter	100	69.27	28.00	14.59	111.86
		150	46.18	28.00	11.13	**85.31**
		200	34.64	28.00	9.40	**72.03**
$85,000		100	73.60	29.75	15.50	118.85
		150	49.07	29.75	11.82	**90.64**
		200	36.80	29.75	9.98	76.53
$90,000		100	77.93	31.50	16.41	125.85
		150	51.95	31.50	12.52	**95.97**
		200	38.97	31.50	10.57	81.04
$100,000	3 row potato harvester	100	86.59	35.00	18.24	139.83
		150	57.73	35.00	13.91	**106.64**
		200	43.30	35.00	11.74	90.04
$105,000		100	90.92	36.75	19.15	146.82
		150	60.61	36.75	14.60	**111.97**
		200	45.46	36.75	12.33	94.54
$115,000		100	99.58	40.25	20.97	160.80
		150	66.39	40.25	16.00	**122.63**
		200	49.79	40.25	13.51	103.55
$125,000	4 row potato harvester	100	108.24	43.75	22.80	174.79
		150	72.16	43.75	17.39	**133.29**
		200	54.12	43.75	14.68	112.55

Note: Rental cost does **NOT** include cost of tractor unit. See Pages 6-7.

FARMYARD EQUIPMENT (Grain)

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
			dollars per hour			
$4,000	auger 7" x 41 ft. snowblower (96")	100	3.46	1.20	0.70	5.36
		150	2.31	1.20	0.53	**4.04**
		200	1.73	1.20	0.44	3.37
$5,000	auger 8" x 51 ft. snowblower (102")	100	4.33	1.50	0.87	6.70
		150	2.89	1.50	0.66	**5.04**
		200	2.16	1.50	0.55	4.21
$6,000	auger 10" x 51 ft. * or 8" x 62 ft. *	100	5.20	1.80	1.05	8.04
		150	3.46	1.80	0.79	**6.05**
		200	2.60	1.80	0.66	5.06
$7,500	auger 10" x 70 ft. *	100	6.49	2.25	1.31	10.06
		150	4.33	2.25	0.99	**7.57**
		200	3.25	2.25	0.82	6.32
$9,500	small grain vac	100	8.23	2.85	1.66	12.74
		150	5.48	2.85	1.25	**9.58**
		200	4.11	2.85	1.04	8.01
$12,000	auger 13"x 70 ft. *	100	10.39	3.60	2.10	16.09
		150	6.93	3.60	1.58	**12.11**
		200	5.20	3.60	1.32	10.11
$14,500	med. grain vac	100	12.56	4.35	2.54	19.44
		150	8.37	4.35	1.91	**14.63**
		200	6.28	4.35	1.59	12.22
$16,500	field scraper auger 13" x 90 ft.	100	14.29	4.95	2.89	22.12
		150	9.52	4.95	2.17	**16.65**
		200	7.14	4.95	1.81	13.91
$19,000	large grain vac.	100	16.45	5.70	3.32	25.47
		150	10.97	5.70	2.50	**19.17**
		200	8.23	5.70	2.09	16.01
$21,000		100	18.18	6.30	3.67	28.16
		150	12.12	6.30	2.76	**21.19**
		200	9.09	6.30	2.31	17.70

Includes:
Augers
Grain vacs
Scrapers
Snowblowers

*auger with swing away hopper

FARMYARD EQUIPMENT (Livestock)

New Cost	Average size	Annual hours	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate
				dollars per hour		
$5,000		100	4.33	1.50	0.87	6.70
		150	2.89	1.50	0.66	**5.04**
		200	2.16	1.50	0.55	4.21
$6,000		100	5.20	1.80	1.05	8.04
		150	3.46	1.80	0.79	**6.05**
		200	2.60	1.80	0.66	5.06
$7,000	F.E.Loader (70 hp)	100	6.06	2.10	1.22	9.39
	Cattle Trailer 12'	150	4.04	2.10	0.92	**7.06**
	Post Driver	200	3.03	2.10	0.77	5.90
$8,500	F.E.Loader (70 - 90 hp)	100	7.36	2.55	1.49	11.40
	Cattle Trailer 16'	150	4.91	2.55	1.12	**8.58**
		200	3.68	2.55	0.93	7.16
$10,500	F.E.Loader (90 -120 hp)	100	9.09	3.15	1.84	14.08
	Cattle Trailer 20'	150	6.06	3.15	1.38	**10.59**
		200	4.55	3.15	1.15	8.85
$12,500	F.E.Loader (120-150 hp)	100	10.82	3.75	2.19	16.76
	Bale Processor	150	7.22	3.75	1.64	**12.61**
		200	5.41	3.75	1.37	10.54
$15,000	F.E.Loader (over 150 hp)	100	12.99	4.50	2.62	20.11
	portable grinder mixer **	150	8.66	4.50	1.97	**15.13**
	3.6 cu. m capacity (100 bus.)	200	6.49	4.50	1.65	12.64
$20,500	portable grinder mixer **	100	17.75	6.15	3.59	27.49
	4.9 cu. m capacity (135 bus.)	150	11.83	6.15	2.70	**20.68**
	tub grinder	200	8.88	6.15	2.25	17.28
$25,500		100	22.08	7.65	4.46	34.19
	tub grinder	150	14.72	7.65	3.36	**25.73**
		200	11.04	7.65	2.80	21.49
$32,000		100	27.71	9.60	5.60	42.91
	tub grinder	150	18.47	9.60	4.21	**32.28**
		200	13.85	9.60	3.52	26.97

Includes:

Bale Processors
Feed Mixers
Cattle Trailers
Post Drivers
Front end loader

**scale for grinder-mixers $3000 extra

TRUCKS

New Cost	Annual kilometres	Fixed Costs	Repairs & Maint.	Margin @ 15 %	Rental Rate	Fuel Cost	Labour Cost	Custom Rate	STANDBY CHARGES (not including labour)	
		dollars per kilometre							$ per day	plus $ per km
$25,000	10000	0.22	0.04	0.04	0.30	0.08	0.11	0.49		
	14000	**0.15**	**0.05**	**0.03**	**0.23**	0.08	0.11	**0.42**	12.45	0.14
	18000	0.12	0.05	0.03	0.20	0.08	0.11	0.39		
$35,000	10000	0.30	0.06	0.05	0.42	0.11	0.11	0.64		
	14000	**0.22**	**0.07**	**0.04**	**0.33**	0.11	0.11	**0.55**	17.43	0.19
	18000	0.17	0.07	0.04	0.28	0.11	0.11	0.50		
$45,000	10000	0.39	0.08	0.07	0.54	0.15	0.11	0.79		
	14000	**0.28**	**0.09**	**0.05**	**0.42**	0.15	0.11	**0.68**	22.41	0.25
	18000	0.22	0.09	0.05	0.36	0.15	0.11	0.61		
$55,000	10000	0.48	0.10	0.09	0.66	0.18	0.11	0.95		
	14000	**0.34**	**0.11**	**0.07**	**0.51**	0.18	0.11	**0.80**	27.38	0.30
	18000	0.26	0.11	0.06	0.44	0.18	0.11	0.72		
$65,000	10000	0.56	0.11	0.10	0.78	0.21	0.11	1.10		
	14000	**0.40**	**0.12**	**0.08**	**0.61**	0.21	0.11	**0.93**	32.36	0.35
	18000	0.31	0.13	0.07	0.51	0.21	0.11	0.84		
$75,000	10000	0.65	0.13	0.12	0.90	0.24	0.11	1.25		
	14000	**0.46**	**0.14**	**0.09**	**0.70**	0.24	0.11	**1.05**	37.34	0.41
	18000	0.36	0.16	0.08	0.59	0.24	0.11	0.95		
$85,000	10000	0.74	0.15	0.13	1.02	0.28	0.11	1.40		
	14000	**0.53**	**0.16**	**0.10**	**0.79**	0.28	0.11	**1.18**	42.32	0.46
	18000	0.41	0.18	0.09	0.67	0.28	0.11	1.06		
$95,000	10000	0.82	0.17	0.15	1.14	0.31	0.11	1.56		
	14000	**0.59**	**0.18**	**0.12**	**0.88**	0.31	0.11	**1.30**	47.30	0.52
	18000	0.46	0.20	0.10	0.75	0.31	0.11	1.17		
$105,000	12000	0.76	0.19	0.14	1.09	0.34	0.11	1.54		
	17000	**0.53**	**0.21**	**0.11**	**0.86**	0.34	0.11	**1.31**	52.28	0.59
	22000	0.41	0.23	0.10	0.74	0.34	0.11	1.20		
$115,000	12000	0.83	0.21	0.16	1.20	0.37	0.11	1.68		
	17000	**0.59**	**0.23**	**0.12**	**0.94**	0.37	0.11	**1.43**	57.26	0.64
	22000	0.45	0.26	0.11	0.82	0.37	0.11	1.30		
$125,000	12000	0.90	0.23	0.17	1.30	0.41	0.11	1.82		
	17000	**0.64**	**0.25**	**0.13**	**1.02**	0.41	0.11	**1.54**	62.24	0.70
	22000	0.49	0.28	0.12	0.89	0.41	0.11	1.40		
$135,000	12000	0.97	0.25	0.18	1.40	0.44	0.11	1.95		
	17000	**0.69**	**0.27**	**0.14**	**1.11**	0.44	0.11	**1.65**	67.22	0.75
	22000	0.53	0.30	0.12	0.96	0.44	0.11	1.51		
$145,000	17000	0.74	0.29	0.15	1.19	0.47	0.11	1.77		
	22000	**0.57**	**0.32**	**0.13**	**1.03**	0.47	0.11	**1.61**	72.19	0.84
	27000	0.47	0.35	0.12	0.94	0.47	0.11	1.52		
$155,000	17000	0.79	0.31	0.17	1.27	0.50	0.11	1.88		
	22000	**0.61**	**0.35**	**0.14**	**1.10**	0.50	0.11	**1.71**	77.17	0.90
	27000	0.50	0.38	0.13	1.00	0.50	0.11	1.62		
$165,000	17000	0.84	0.33	0.18	1.35	0.54	0.11	2.00		
	22000	**0.65**	**0.37**	**0.15**	**1.17**	0.54	0.11	**1.82**	82.15	0.96
	27000	0.53	0.40	0.14	1.07	0.54	0.11	1.72		
$175,000	17000	0.89	0.36	0.19	1.43	0.57	0.11	2.11		
	22000	**0.69**	**0.39**	**0.16**	**1.24**	0.57	0.11	**1.92**	87.13	1.02
	27000	0.56	0.43	0.15	1.13	0.57	0.11	1.81		

Note: Fuel costs are for diesel engines. For gasoline engines multiply fuel costs by 1.55.
Use standby charges when trucks costing $95,000 or less are used less than 60 km per day; trucks costing $105,000 to $145,000 are used less than 75 km per day ; or trucks costing $145,000 or more are used less than 100 km per day. Standby charges are based on fixed cost of ownership for 200 days per year. Adjust upwards if shorter periods of use per year are assumed.

Average costs: (net payload in brackets)

single axle with grain box (9 t) $45,000 to $65,000
tandem axle with grain box (16 t) $85,000 to $110,000
truck tractor with grain trailer (23 t) $125,000 to $140,000
truck tractor with grain trailer (40 t) $130,000 to $160,000

APPENDIX

1) Depreciation and Interest Rate Calculations:

	Depreciation Rates		
	1st year	all other years	remaining value after 15 years
Tractors	15%	12.0%	14.2%
Trucks, tillage and harvesting equip.	18%	14.4%	9.3%
Hay and forage equipment	20%	16.0%	7.0%

Interest costs are based on the average value of the machine over a 15 year life, using annual depreciated values calculated from the above rates. The interest costs are calculated using the beginning value for each year. (see Table below).

Depreciation and Interest Cost Table for $100,000 tractor (interest rate 4%)

Year	Depreciation rate	Depreciation	Value	Interest
0	15%		$100,000	
1	12%	$15,000	$85,000	$4,000
2	12%	$10,200	$74,800	$3,400
3	12%	$8,976	$65,824	$2,992
4	12%	$7,899	$57,925	$2,633
5	12%	$6,951	$50,974	$2,317
6	12%	$6,117	$44,857	$2,039
7	12%	$5,383	$39,474	$1,794
8	12%	$4,737	$34,737	$1,579
9	12%	$4,168	$30,569	$1,389
10	12%	$3,668	$26,901	$1,223
11	12%	$3,228	$23,673	$1,076
12	12%	$2,841	$20,832	$947
13	12%	$2,500	$18,332	$833
14	12%	$2,200	$16,132	$733
15	12%	$1,936	$14,196	$645
	15 year average	$5,720	$46,002	$1,840

Example: Tractor costing $100,000 new. Average annual depreciation for 15 year life is $5720. Average annual interest cost at 4% interest rate is $1840.

Hourly depreciation at 450 hours/year	$5720/450=	$12.71 per hour
Hourly interest cost :	$1840/450=	$4.09 per hour
Insurance and housing cost is 1%/yr	$1000/450=	$2.22 per hour
Total fixed costs:		**$19.02** per hour

2) Grain Drying Example:

Stationary Batch(250 bu.),$50,000, 150 hr./yr. Wheat from 17% to 14.5% Ambient Temp. of -7 degrees C. Drying rate of 200 bu./hr.

Custom Rate: (from Table on Page 21)	$54.07/hr.
Propane Cost: $0.05/bu. x 1.5 x 200 bu./hr.=	$15.00/hr.
Total Custom Rate -	**$69.07 / hr**

3) Chart Formulas (pages 34 and 35):

Cost per hectare or acre = $\frac{\text{cost per hour}}{\text{hectares or acres per hour}}$

Hectares per hour = $\frac{\text{width in metres x speed in km/h x \% efficiency}}{10.0}$

Acres per hour = $\frac{\text{width in feet x speed in mph x \% efficiency}}{8.25}$

Note: (80% field efficiency is assumed in the charts)

To determine the cost or rate per hectare, acre, or bale, use the charts provided on the last two pages.

Example No. 1. Combine custom rate is $150/h; the combine covers 9 acres per hour. Cost per acre would be $16.67 (from chart on page 34).

Example No. 2. Seeding with an air seeder. The rental rate for the air seeder is $85/h and the tractor custom rate is $45/h. The total hourly rate = $130/h. The work rate is 8 ha/h. Rate per hectare = $16.25 (from chart on page 34).

Example No. 3. Baler making 14 bales per hour. Baler rental rate = $33/h. Tractor custom rate is $23/h. Total hourly rate = $56/h plus twine. Cost per bale = $4.00 plus twine. (from chart on page 35).

DOLLARS PER HECTARE OR ACRE

hectares or acres per hour	DOLLARS PER HOUR										
	$10.00	**$15.00**	**$20.00**	**$25.00**	**$30.00**	**$35.00**	**$40.00**	**$45.00**	**$50.00**	**$55.00**	**$60.00**
2.0	$5.00	$7.50	$10.00	$12.50	$15.00	$17.50	$20.00	$22.50	$25.00	$27.50	$30.00
2.5	$4.00	$6.00	$8.00	$10.00	$12.00	$14.00	$16.00	$18.00	$20.00	$22.00	$24.00
3.0	$3.33	$5.00	$6.67	$8.33	$10.00	$11.67	$13.33	$15.00	$16.67	$18.33	$20.00
3.5	$2.86	$4.29	$5.71	$7.14	$8.57	$10.00	$11.43	$12.86	$14.29	$15.71	$17.14
4.0	**$2.50**	**$3.75**	**$5.00**	**$6.25**	**$7.50**	**$8.75**	**$10.00**	**$11.25**	**$12.50**	**$13.75**	**$15.00**
4.5	$2.22	$3.33	$4.44	$5.56	$6.67	$7.78	$8.89	$10.00	$11.11	$12.22	$13.33
5.0	$2.00	$3.00	$4.00	$5.00	$6.00	$7.00	$8.00	$9.00	$10.00	$11.00	$12.00
5.5	$1.82	$2.73	$3.64	$4.55	$5.45	$6.36	$7.27	$8.18	$9.09	$10.00	$10.91
6.0	**$1.67**	**$2.50**	**$3.33**	**$4.17**	**$5.00**	**$5.83**	**$6.67**	**$7.50**	**$8.33**	**$9.17**	**$10.00**
6.5	$1.54	$2.31	$3.08	$3.85	$4.62	$5.38	$6.15	$6.92	$7.69	$8.46	$9.23
7.0	$1.43	$2.14	$2.86	$3.57	$4.29	$5.00	$5.71	$6.43	$7.14	$7.86	$8.57
7.5	$1.33	$2.00	$2.67	$3.33	$4.00	$4.67	$5.33	$6.00	$6.67	$7.33	$8.00
8.0	**$1.25**	**$1.88**	**$2.50**	**$3.13**	**$3.75**	**$4.38**	**$5.00**	**$5.63**	**$6.25**	**$6.88**	**$7.50**
8.5	$1.18	$1.76	$2.35	$2.94	$3.53	$4.12	$4.71	$5.29	$5.88	$6.47	$7.06
9.0	$1.11	$1.67	$2.22	$2.78	$3.33	$3.89	$4.44	$5.00	$5.56	$6.11	$6.67
9.5	$1.05	$1.58	$2.11	$2.63	$3.16	$3.68	$4.21	$4.74	$5.26	$5.79	$6.32
10.0	**$1.00**	**$1.50**	**$2.00**	**$2.50**	**$3.00**	**$3.50**	**$4.00**	**$4.50**	**$5.00**	**$5.50**	**$6.00**
10.5	$0.95	$1.43	$1.90	$2.38	$2.86	$3.33	$3.81	$4.29	$4.76	$5.24	$5.71
11.0	$0.91	$1.36	$1.82	$2.27	$2.73	$3.18	$3.64	$4.09	$4.55	$5.00	$5.45
11.5	$0.87	$1.30	$1.74	$2.17	$2.61	$3.04	$3.48	$3.91	$4.35	$4.78	$5.22
12.0	**$0.83**	**$1.25**	**$1.67**	**$2.08**	**$2.50**	**$2.92**	**$3.33**	**$3.75**	**$4.17**	**$4.58**	**$5.00**
12.5	$0.80	$1.20	$1.60	$2.00	$2.40	$2.80	$3.20	$3.60	$4.00	$4.40	$4.80
13.0	$0.77	$1.15	$1.54	$1.92	$2.31	$2.69	$3.08	$3.46	$3.85	$4.23	$4.62
13.5	$0.74	$1.11	$1.48	$1.85	$2.22	$2.59	$2.96	$3.33	$3.70	$4.07	$4.44
14.0	**$0.71**	**$1.07**	**$1.43**	**$1.79**	**$2.14**	**$2.50**	**$2.86**	**$3.21**	**$3.57**	**$3.93**	**$4.29**
14.5	$0.69	$1.03	$1.38	$1.72	$2.07	$2.41	$2.76	$3.10	$3.45	$3.79	$4.14
15.0	$0.67	$1.00	$1.33	$1.67	$2.00	$2.33	$2.67	$3.00	$3.33	$3.67	$4.00
15.5	$0.65	$0.97	$1.29	$1.61	$1.94	$2.26	$2.58	$2.90	$3.23	$3.55	$3.87
16.0	**$0.63**	**$0.94**	**$1.25**	**$1.56**	**$1.88**	**$2.19**	**$2.50**	**$2.81**	**$3.13**	**$3.44**	**$3.75**
16.5	$0.61	$0.91	$1.21	$1.52	$1.82	$2.12	$2.42	$2.73	$3.03	$3.33	$3.64
17.0	$0.59	$0.88	$1.18	$1.47	$1.76	$2.06	$2.35	$2.65	$2.94	$3.24	$3.53
17.5	$0.57	$0.86	$1.14	$1.43	$1.71	$2.00	$2.29	$2.57	$2.86	$3.14	$3.43
18.0	$0.56	$0.83	$1.11	$1.39	$1.67	$1.94	$2.22	$2.50	$2.78	$3.06	$3.33

hectares or acres per hour	DOLLARS PER HOUR										
	$70.00	**$80.00**	**$90.00**	**$100.00**	**$110.00**	**$120.00**	**$130.00**	**$140.00**	**$150.00**	**$160.00**	**$170.00**
4.0	$17.50	$20.00	$22.50	$25.00	$27.50	$30.00	$32.50	$35.00	$37.50	$40.00	$42.50
4.5	$15.56	$17.78	$20.00	$22.22	$24.44	$26.67	$28.89	$31.11	$33.33	$35.56	$37.78
5.0	$14.00	$16.00	$18.00	$20.00	$22.00	$24.00	$26.00	$28.00	$30.00	$32.00	$34.00
5.5	$12.73	$14.55	$16.36	$18.18	$20.00	$21.82	$23.64	$25.45	$27.27	$29.09	$30.91
6.0	**$11.67**	**$13.33**	**$15.00**	**$16.67**	**$18.33**	**$20.00**	**$21.67**	**$23.33**	**$25.00**	**$26.67**	**$28.33**
6.5	$10.77	$12.31	$13.85	$15.38	$16.92	$18.46	$20.00	$21.54	$23.08	$24.62	$26.15
7.0	$10.00	$11.43	$12.86	$14.29	$15.71	$17.14	$18.57	$20.00	$21.43	$22.86	$24.29
7.5	$9.33	$10.67	$12.00	$13.33	$14.67	$16.00	$17.33	$18.67	$20.00	$21.33	$22.67
8.0	**$8.75**	**$10.00**	**$11.25**	**$12.50**	**$13.75**	**$15.00**	**$16.25**	**$17.50**	**$18.75**	**$20.00**	**$21.25**
8.5	$8.24	$9.41	$10.59	$11.76	$12.94	$14.12	$15.29	$16.47	$17.65	$18.82	$20.00
9.0	$7.78	$8.89	$10.00	$11.11	$12.22	$13.33	$14.44	$15.56	$16.67	$17.78	$18.89
9.5	$7.37	$8.42	$9.47	$10.53	$11.58	$12.63	$13.68	$14.74	$15.79	$16.84	$17.89
10.0	**$7.00**	**$8.00**	**$9.00**	**$10.00**	**$11.00**	**$12.00**	**$13.00**	**$14.00**	**$15.00**	**$16.00**	**$17.00**
10.5	$6.67	$7.62	$8.57	$9.52	$10.48	$11.43	$12.38	$13.33	$14.29	$15.24	$16.19
11.0	$6.36	$7.27	$8.18	$9.09	$10.00	$10.91	$11.82	$12.73	$13.64	$14.55	$15.45
11.5	$6.09	$6.96	$7.83	$8.70	$9.57	$10.43	$11.30	$12.17	$13.04	$13.91	$14.78
12.0	**$5.83**	**$6.67**	**$7.50**	**$8.33**	**$9.17**	**$10.00**	**$10.83**	**$11.67**	**$12.50**	**$13.33**	**$14.17**
12.5	$5.60	$6.40	$7.20	$8.00	$8.80	$9.60	$10.40	$11.20	$12.00	$12.80	$13.60
13.0	$5.38	$6.15	$6.92	$7.69	$8.46	$9.23	$10.00	$10.77	$11.54	$12.31	$13.08
13.5	$5.19	$5.93	$6.67	$7.41	$8.15	$8.89	$9.63	$10.37	$11.11	$11.85	$12.59
14.0	**$5.00**	**$5.71**	**$6.43**	**$7.14**	**$7.86**	**$8.57**	**$9.29**	**$10.00**	**$10.71**	**$11.43**	**$12.14**
14.5	$4.83	$5.52	$6.21	$6.90	$7.59	$8.28	$8.97	$9.66	$10.34	$11.03	$11.72
15.0	$4.67	$5.33	$6.00	$6.67	$7.33	$8.00	$8.67	$9.33	$10.00	$10.67	$11.33
15.5	$4.52	$5.16	$5.81	$6.45	$7.10	$7.74	$8.39	$9.03	$9.68	$10.32	$10.97
16.0	**$4.38**	**$5.00**	**$5.63**	**$6.25**	**$6.88**	**$7.50**	**$8.13**	**$8.75**	**$9.38**	**$10.00**	**$10.63**
16.5	$4.24	$4.85	$5.45	$6.06	$6.67	$7.27	$7.88	$8.48	$9.09	$9.70	$10.30
17.0	$4.12	$4.71	$5.29	$5.88	$6.47	$7.06	$7.65	$8.24	$8.82	$9.41	$10.00
17.5	$4.00	$4.57	$5.14	$5.71	$6.29	$6.86	$7.43	$8.00	$8.57	$9.14	$9.71
18.0	**$3.89**	**$4.44**	**$5.00**	**$5.56**	**$6.11**	**$6.67**	**$7.22**	**$7.78**	**$8.33**	**$8.89**	**$9.44**
18.5	$3.78	$4.32	$4.86	$5.41	$5.95	$6.49	$7.03	$7.57	$8.11	$8.65	$9.19
19.0	$3.68	$4.21	$4.74	$5.26	$5.79	$6.32	$6.84	$7.37	$7.89	$8.42	$8.95
19.5	$3.59	$4.10	$4.62	$5.13	$5.64	$6.15	$6.67	$7.18	$7.69	$8.21	$8.72
20.0	$3.50	$4.00	$4.50	$5.00	$5.50	$6.00	$6.50	$7.00	$7.50	$8.00	$8.50

DOLLARS PER BALE

bales per hour	DOLLARS PER HOUR										
	$45.00	$50.00	$55.00	$60.00	$65.00	$70.00	$75.00	$80.00	$85.00	$90.00	$95.00
10	$4.50	$5.00	$5.50	$6.00	$6.50	$7.00	$7.50	$8.00	$8.50	$9.00	$9.50
12	$3.75	$4.17	$4.58	$5.00	$5.42	$5.83	$6.25	$6.67	$7.08	$7.50	$7.92
14	$3.21	$3.57	$3.93	$4.29	$4.64	$5.00	$5.36	$5.71	$6.07	$6.43	$6.79
16	$2.81	$3.13	$3.44	$3.75	$4.06	$4.38	$4.69	$5.00	$5.31	$5.63	$5.94
18	$2.50	$2.78	$3.06	$3.33	$3.61	$3.89	$4.17	$4.44	$4.72	$5.00	$5.28
20	$2.25	$2.50	$2.75	$3.00	$3.25	$3.50	$3.75	$4.00	$4.25	$4.50	$4.75
22	$2.05	$2.27	$2.50	$2.73	$2.95	$3.18	$3.41	$3.64	$3.86	$4.09	$4.32
24	$1.88	$2.08	$2.29	$2.50	$2.71	$2.92	$3.13	$3.33	$3.54	$3.75	$3.96
26	$1.73	$1.92	$2.12	$2.31	$2.50	$2.69	$2.88	$3.08	$3.27	$3.46	$3.65
28	$1.61	$1.79	$1.96	$2.14	$2.32	$2.50	$2.68	$2.86	$3.04	$3.21	$3.39
30	$1.50	$1.67	$1.83	$2.00	$2.17	$2.33	$2.50	$2.67	$2.83	$3.00	$3.17
100	$0.45	$0.50	$0.55	$0.60	$0.65	$0.70	$0.75	$0.80	$0.85	$0.90	$0.95
125	$0.36	$0.40	$0.44	$0.48	$0.52	$0.56	$0.60	$0.64	$0.68	$0.72	$0.76
150	$0.30	$0.33	$0.37	$0.40	$0.43	$0.47	$0.50	$0.53	$0.57	$0.60	$0.63
175	$0.26	$0.29	$0.31	$0.34	$0.37	$0.40	$0.43	$0.46	$0.49	$0.51	$0.54
200	$0.23	$0.25	$0.28	$0.30	$0.33	$0.35	$0.38	$0.40	$0.43	$0.45	$0.48
225	$0.20	$0.22	$0.24	$0.27	$0.29	$0.31	$0.33	$0.36	$0.38	$0.40	$0.42
250	$0.18	$0.20	$0.22	$0.24	$0.26	$0.28	$0.30	$0.32	$0.34	$0.36	$0.38
275	$0.16	$0.18	$0.20	$0.22	$0.24	$0.25	$0.27	$0.29	$0.31	$0.33	$0.35
300	$0.15	$0.17	$0.18	$0.20	$0.22	$0.23	$0.25	$0.27	$0.28	$0.30	$0.32
325	$0.14	$0.15	$0.17	$0.18	$0.20	$0.22	$0.23	$0.25	$0.26	$0.28	$0.29
350	$0.13	$0.14	$0.16	$0.17	$0.19	$0.20	$0.21	$0.23	$0.24	$0.26	$0.27
375	$0.12	$0.13	$0.15	$0.16	$0.17	$0.19	$0.20	$0.21	$0.23	$0.24	$0.25
400	$0.11	$0.13	$0.14	$0.15	$0.16	$0.18	$0.19	$0.20	$0.21	$0.23	$0.24

HECTARES PER HOUR

at 80% field efficiency

speed in km / h	WIDTH IN METRES										
	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
4	0.64	0.96	1.28	1.60	1.92	2.24	2.56	2.88	3.20	3.52	3.84
5	0.80	1.20	1.60	2.00	2.40	2.80	3.20	3.60	4.00	4.40	4.80
6	0.96	1.44	1.92	2.40	2.88	3.36	3.84	4.32	4.80	5.28	5.76
7	1.12	1.68	2.24	2.80	3.36	3.92	4.48	5.04	5.60	6.16	6.72
8	1.28	1.92	2.56	3.20	3.84	4.48	5.12	5.76	6.40	7.04	7.68
9	1.44	2.16	2.88	3.60	4.32	5.04	5.76	6.48	7.20	7.92	8.64
10	1.60	2.40	3.20	4.00	4.80	5.60	6.40	7.20	8.00	8.80	9.60
11	1.76	2.64	3.52	4.40	5.28	6.16	7.04	7.92	8.80	9.68	10.56
12	1.92	2.88	3.84	4.80	5.76	6.72	7.68	8.64	9.60	10.56	11.52
13	2.08	3.12	4.16	5.20	6.24	7.28	8.32	9.36	10.40	11.44	12.48
14	2.24	3.36	4.48	5.60	6.72	7.84	8.96	10.08	11.20	12.32	13.44
15	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12.00	13.20	14.40
16	2.56	3.84	5.12	6.40	7.68	8.96	10.24	11.52	12.80	14.08	15.36
17	2.72	4.08	5.44	6.80	8.16	9.52	10.88	12.24	13.60	14.96	16.32
18	2.88	4.32	5.76	7.20	8.64	10.08	11.52	12.96	14.40	15.84	17.28

ACRES PER HOUR

at 80% field efficiency

speed in mph	WIDTH IN FEET										
	6.0	10.0	14.0	18.0	22.0	26.0	30.0	34.0	38.0	42.0	46.0
3	1.75	2.91	4.07	5.24	6.40	7.57	8.73	9.89	11.06	12.22	13.39
4	2.33	3.88	5.43	6.98	8.54	10.09	11.64	13.19	14.74	16.30	17.85
5	2.91	4.85	6.79	8.73	10.67	12.61	14.55	16.49	18.43	20.37	22.31
6	3.49	5.82	8.15	10.48	12.80	15.13	17.46	19.79	22.12	24.44	26.77
7	4.07	6.79	9.51	12.22	14.94	17.65	20.37	23.09	25.80	28.52	31.23
8	4.66	7.76	10.86	13.97	17.07	20.18	23.28	26.38	29.49	32.59	35.70
9	5.24	8.73	12.22	15.71	19.21	22.70	26.19	29.68	33.17	36.67	40.16
10	5.82	9.70	13.58	17.46	21.34	25.22	29.10	32.98	36.86	40.74	44.62
11	6.40	10.67	14.94	19.21	23.47	27.74	32.01	36.28	40.55	44.81	49.08
12	6.98	11.64	16.30	20.95	25.61	30.26	34.92	39.58	44.23	48.89	53.54

NOTES and CALCULATIONS

GROWING **Opportunities**